

PRELIMINARY AMENDMENT  
Attorney Docket No. Q67080

REMARKS

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,



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Abraham J. Rosner  
Registration No. 33,276

SUGHRUE MION, PLLC  
2100 Pennsylvania Avenue, N.W.  
Washington, D.C. 20037-3213  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

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**APPENDIX**

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

**The claims are amended as follows:**

4. (Amended) A method according to claim 1 [or 2], further comprising a step of:  
retrieving the spacer after bending the metal strip so that the gap-distance between the metal strip and the center electrode is able to be adjusted to a required value by referring to a position of the preliminary bent metal strip and the position of the firing end of the center electrode.

5. (Amended) A method according to claim 1, [2, 3, or 4,] further comprising a step of:

welding a metal plate tip to a lateral side of the metal strip for a ground electrode after providing the metal strip extending from the end of the metal shell and before positioning the spacer above the firing end of the center electrode, the metal plate tip being a spark-erosion resistant metal which includes Pt, Ir, Rh, Pd, Re, Os, Ru, Ni or alloy thereof.

6. (Amended) A method according to [any one of the preceding claims] claim 1, wherein,

a clearance between the spacer and the firing end is maintained during the step of bending the metal strip so as to protect the firing end of the center electrode.

7. (Amended) A method according to [any one of the preceding claims] claim 1, wherein,

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the firing end of the center electrode is made of a tip having a diameter in the range of from 0.3 to 1 mm.

9. (Amended) A method according to [any one of the preceding claims] claim 1, wherein the spacer has a rounded portion toward which the metal strip is bent by a punch, in said preliminary bending step.

10. (Amended) A method according to [any one of the preceding claims] claim 1, further comprising the steps of:

storing information relating to the position of the firing end of the center electrode in a computer memory; and

using said information for positioning the spacer.

11. (Amended) A method according to [any one of the preceding claims] claim 1, further comprising the steps of:

storing information relating to the position of the firing end of the center electrode in a computer memory; and

using said information for precisely forming a gap-distance between the metal strip and the firing end of the center electrode.

12. (Amended) A method according to [any one of the preceding claims] claim 1, wherein the position for the spacer is determined by positional information of the firing end of the center electrode, the positional information being determined with reference to a position of a part constituting the spark plug.

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13. (Amended) A method according to [any one of the preceding claims] claim 1, wherein positional information of the firing end of the center electrode is measured by use of a position-detecting sensor using a laser.

14. (Amended) A method according to [any one of the preceding claims] claim 1, wherein the force applied to the metal strip for precisely forming the gap distance is caused by a die moving in parallel with a center electrode axis.

15. (Amended) A method according to [any one of the preceding claims] claim 1, wherein the arc portion to be formed in the metal strip by positioning the spacer is located at substantially the same level as the firing end of the center electrode.

16. (Amended) An apparatus adapted to perform the method according to [any of the preceding claims] claim 1.

19. (Amended) An apparatus according to claim 17 [or 18], further comprising a visual-image processor for detecting information on said gap-distance.

20. (Amended) An apparatus according to claim 18 [or 19], further comprising a memory for storing said measured positional information and/or said detected gap-distance information.

21. (Amended) An apparatus according to claim 18[, 19 or 20], further comprising a CPU for controlling said means for positioning said spacer, said means for preliminarily

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bending said metal strip and said means for precisely forming said gap-distance, based on said measured and/or stored information.

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